Honeywell

Response Link Paging System

INSTALLATION MANUAL

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RESPONSE LINK SYSTEM

Introduction

The Response Link Paging System is a POCSAG data display radio paging system, which can be used to transmit both text and numeric messages direct to alphanumeric pagers with closed contact alarms. This transmitter can be linked to any alarm system with clean contact outputs covering small and medium sized properties.

Product Overview

The Response Link paging unit consists of a wall-mounted Honeywell branded HIPS (High Impact Polystyrene) enclosure containing a 500mW transmitter enclosed in an aluminium surround.
The Response Link paging unit includes a 240-volt 3-pin plug, status indicator LED for Power and Transmission, and straight wire antenna, connected to the top of the enclosure using a 3/8 BNC bayonet connection.

> **This unit supports four dry volt free contacts, which can be set to normally open N/O or normally closed N/C as required. When activated these will send pre-programmed messages to a particular pager address (which could be to an individual pager or group of pagers at the same time), these messages are pre-programmed and can only be changed by a qualified engineer.**

The Response Link paging unit's four contact closure inputs are located on an internal terminal header block, accessible via glands on the base of the unit.
The system requires alphanumeric pagers to receive the alarm messages.

Important Safety Information

This equipment must only be installed and maintained by a suitably skilled and competent person. This equipment is defined as Class 1 in EN60065 (Low Voltage Directive) and must be EARTHED.

CAUTION INDOOR USE ONLY

WARNING SHOCK HAZARD- ISOLATE BEFORE OPENING

WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT IN RAIN OR MOISTURE

WARNING THIS UNIT MUST BE EARTHED

WARNING NO USER SERVICABLE PARTS

Anti-Static Handling Guidelines

Make sure that electro-static handling precautions are taken immediately before handling PCBs and other static sensitive components.

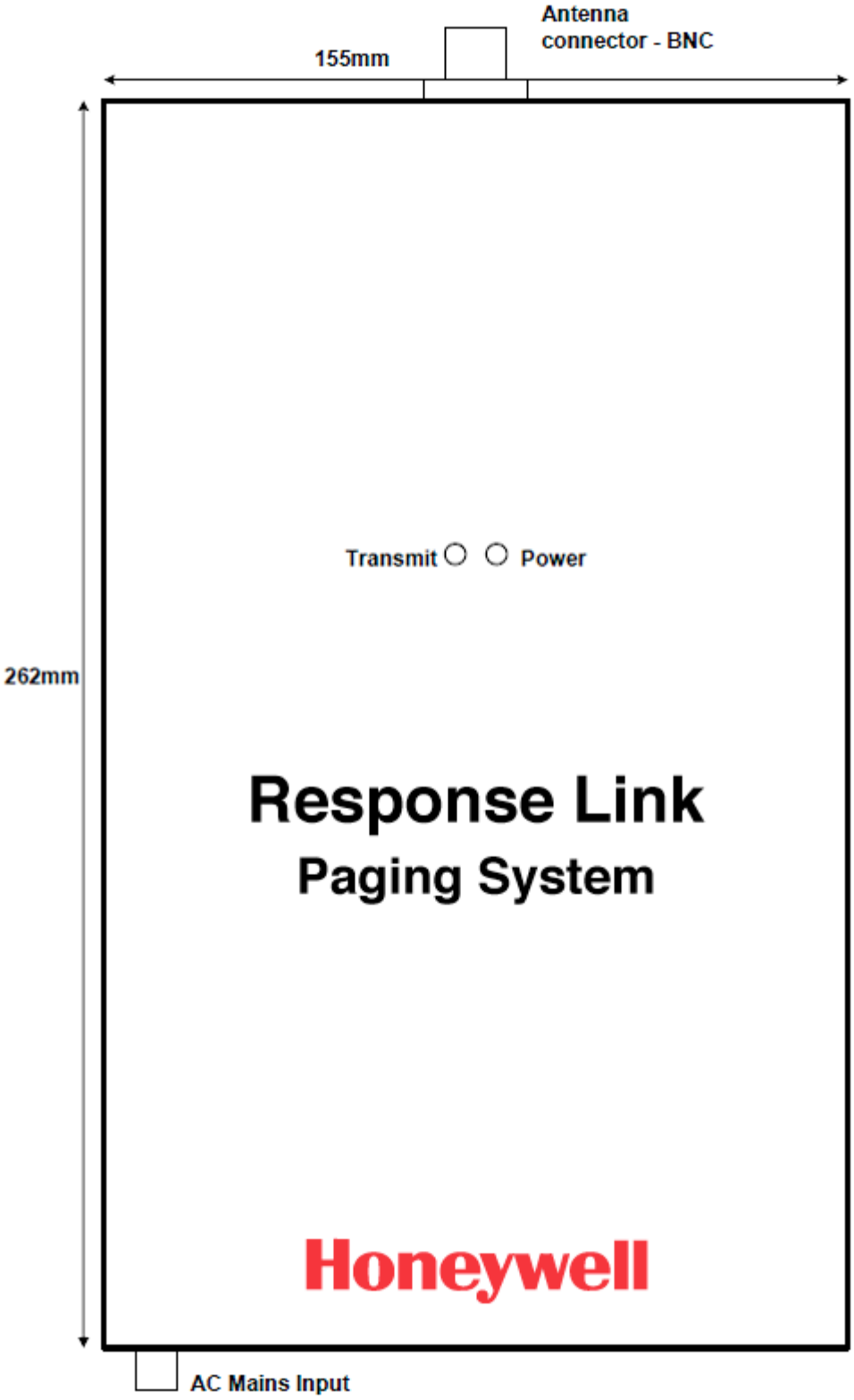
Before handling any static-sensitive items, operators should get rid of any electrostatic charge by touching a sound safety earth, such as a radiator. Always handle PCBs by their sides and avoid touching any components. PCBs should be stored in a clean, dry place that is free from vibration, dust and excessive heat.

Storing the PCBs in a suitable cardboard box will also guard them against mechanical damage.

Unpacking the Unit

Remove the Response Link paging unit from its packaging and check the contents against the following:

1. Response Link paging unit, complete with power cable and four enclosure screws
2. Installation and maintenance manual (this document)
3. Straight wire antenna
4. Alphanumeric pagers (quantity as per your order)



Preparation

The information contained in this section is intended for use by authorised system installation engineers only. Unqualified personnel should not undertake installation of this equipment under any circumstances.

Locating the equipment

Before locating the hardware in any given location, it is important to take into account the range of the operation that is required. The transmitter can quite easily provide range of up to a mile or more (line of site) and will provide full coverage in most small and medium sites. This can be achieved by fitting our standard antenna connected directly to the unit.

For larger and more challenging sites, it is recommended that our Response Plus unit and an externally mounted antenna may possibly be required.

Important: Coaxial feed greater than 5 metres must employ low loss 50 ohm coax. We normally do not recommend feeds of more than 15 metres for standard applications. However, we suggest you contact our technical department for guidance and support on the site survey range test.

Important Installation Notes

- Never install antennas near or adjacent to telephone, public address or data communication lines or overhead cables.
- Avoid, where possible, running antenna coax alongside other cables.
- Avoid mounting the transmitter in the immediate vicinity of telephone exchanges or computer equipment.
- Always use proprietary 50 ohm coaxial cable between antenna and the transmitter. If the cable runs exceed 5 metres, always use low loss 50 ohm cable such as RG213, UR67 or equivalent.

Coax cable intended for TV, Satellite or CCTV installation is normally 75 ohm and therefore unsuitable for any transmitter installation.

- Also remember that the performance of the system will be affected by the type of material the unit is mounted in close proximity to.
- The following list of materials that a transmitter will be adversely affected by if mounted on or if mounted in the close proximity of: foil back plasterboard, metal mesh, wire reinforced glass, metal sheeting, large mirrors or suspended ceilings and lift shafts.
- **NEVER** transmit without an aerial attached to the transmitter.

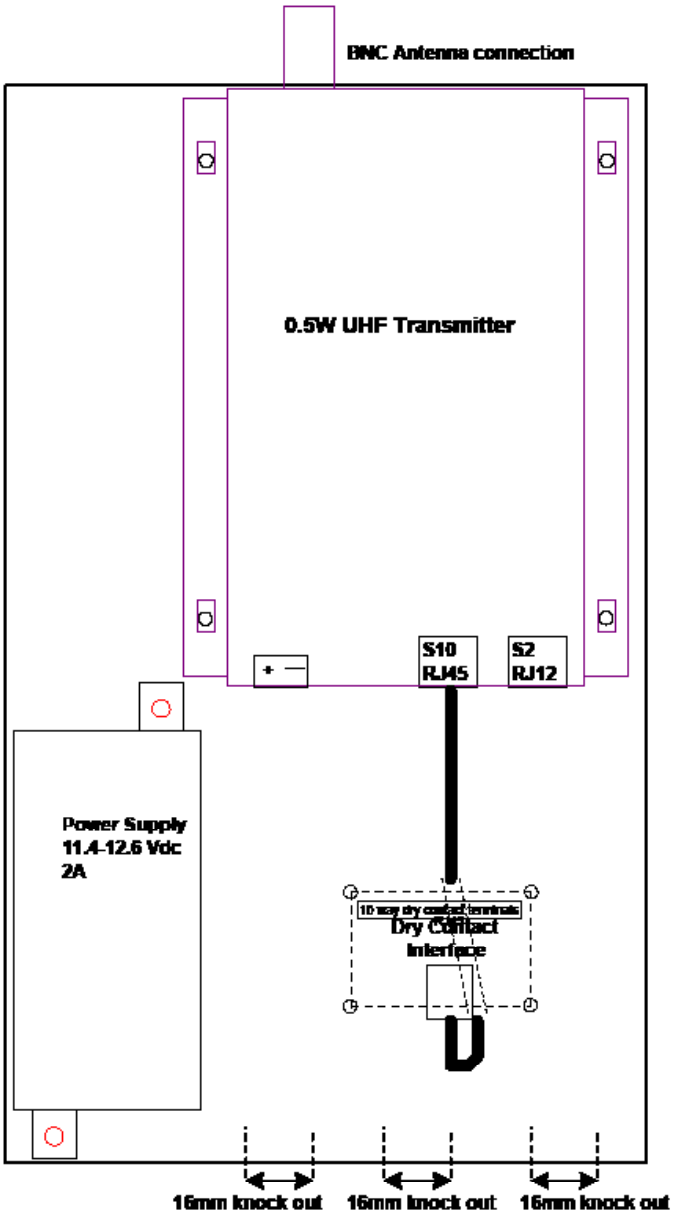
Installation

The following procedure must be adhered to when installing the Response Link paging system. Ensure you have taken into consideration all of the above information when selecting the location of your transmitter. If in doubt, please feel free to contact our technical support for further guidance.

1. Remove the front cover from the enclosure by slackening the screws at the top and bottom corners.
2. Carefully lift off the cover and set aside.
3. The transmitter should be fixed to an even wall surface, using suitable screws fitted through the holes provided in the chassis plate. Hold the chassis up to the chosen location and, with the aid of a pencil, mark the position of the mounting holes.
We have provided a fixing template at the back of the installation manual.

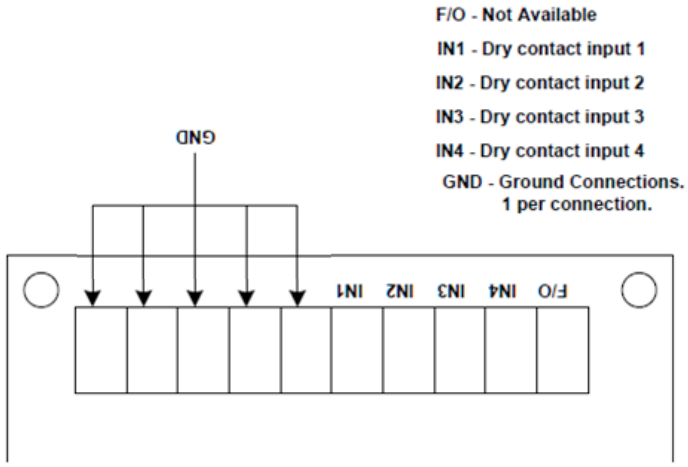
DO NOT use the chassis plate as a template to drill the holes as the drill vibration can damage the paging crystals on the transmitter.

4. Place the transmitter over the mounting holes and secure the unit with suitable screws. Check that the chassis plate does not bend and that the screws do not snag or pinch any of the internal cables.

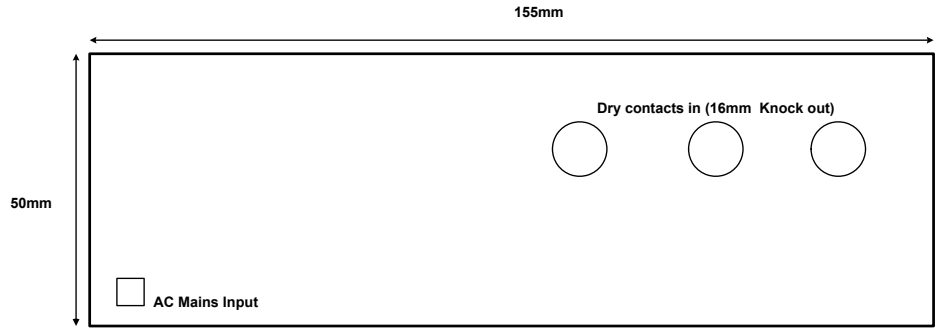


5. Connect the antenna to the unit via the BNC connector located at the top of the housing. If the antenna is an external antenna, or an antenna which is separate from the transmitter unit itself, ensure that the criteria covered in the previous section has been adhered to.

6. Connect the alarm inputs to the terminal header block, making sure that the correct input is connected to the correct output message on the transmitter.



7. Replace the cover and re-tighten the four enclosure screws.



8. Finally, after checking all connection, connect the mains cable at the base of the unit into a suitable switched/fused spur (as applicable) wall outlet. With mains power applied, the green power LED will be lit.

9. The system is now ready to accept calls from the host panel. When a call is transmitted, the red transmit LED on the front of the unit will light momentarily.

Radio Transmission Baud Rate

This is set at the factory to suit the pagers supplied and will normally be set at either 512 or 1200 baud. Please refer to the separate configuration sheet and/or delivery note supplied with the unit.

Operation

To test the system, please activate each alarm that has been connected to the Response Link paging system, to ensure that the contact interface sends the correct message to the alphanumeric pagers.

Indications

Each time the alarm is activated, the TRANSMIT light will momentarily illuminate to confirm that the message has been sent to the pager.

No TRANSMIT light:

- check power to the unit
- check contact interface connections
- check alphanumeric pager is switched on and has full battery power
- possible transmitter fault

Please note that the green POWER light should flicker constantly to signify that the unit is receiving power.

No POWER light:

- check mains supply
- possible transmitter fault

Range Testing

It is recommended that a range test is carried out to ensure that full site coverage has been achieved with the Response Link paging system.

Technical Specification

Mains Input:	100-240V ac 1.0A 50/60HZ
System Operating Voltage:	12V DC
System Power Consumption:	less than 50mA standby, up to 1.2A transmit
Transmitter:	
Power Output:	500mW Max
Frequency Range:	Fixed frequency within a range of 450-470Mhz
Channel Spacing:	12.5 KHz
Adjacent Channel:	Better than 200nW @ 4.5 KHz deviation
TX Baud Rate:	512 or 1200
RF Standards applied:	EN 300 224-1 01/2001
General:	
Ports:	Dry contact in only
Comms Baud Rate:	9600 baud, 8 bit with no parity and 1 stop bit
Footprint (mm)	262mm x 155mm x 60mm

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